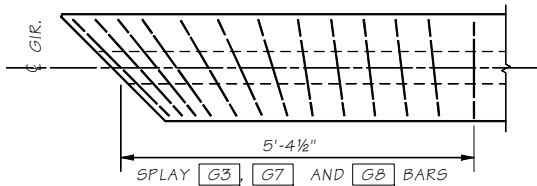


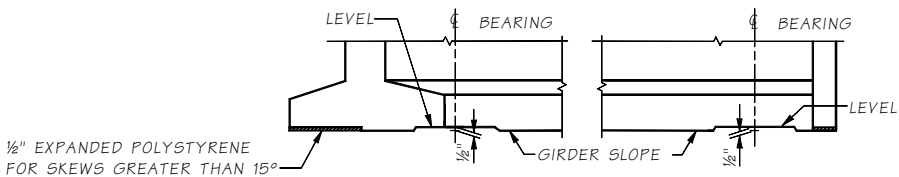
**STRAND PATTERN  
AT GIRDER END**

HARPED STRAND LOCATION SEQUENCE  
SHALL BE AS SHOWN (1) , (2) ETC.

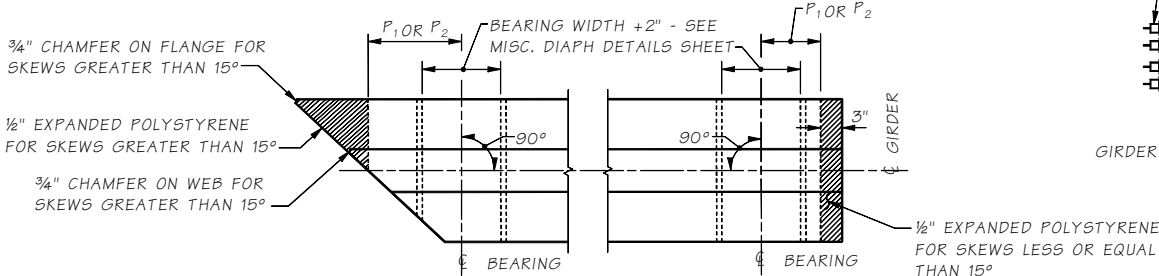


**TRANSVERSE REINFORCING  
SKEWED ENDS**

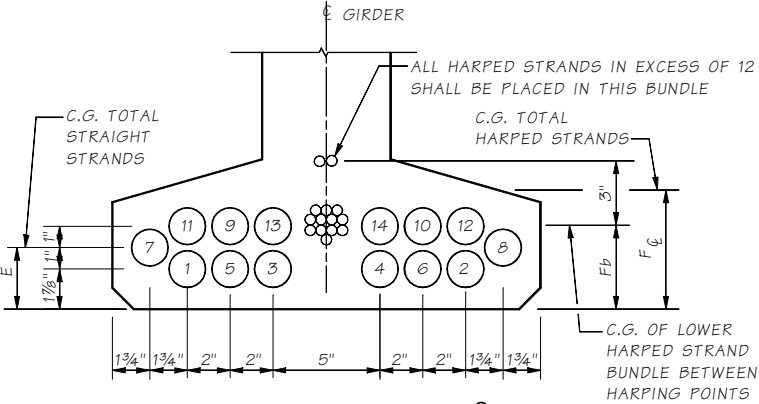
ONLY TRANSVERSE REINF. SHOWN



**ELEVATION**

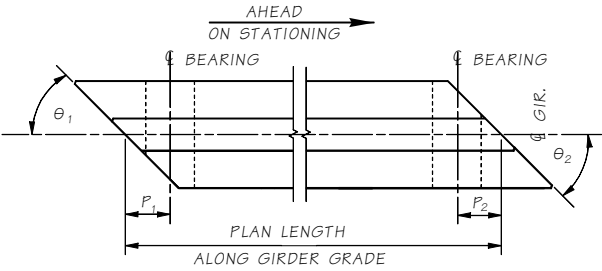


**PLAN - BEARING RECESS & BOTTOM  
FLANGE SPALL PROTECTION**



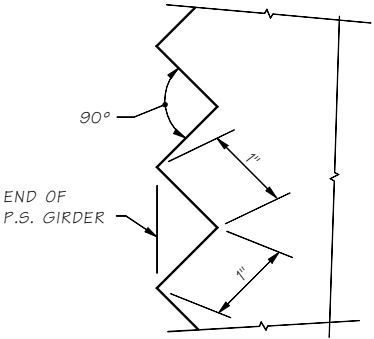
**STRAND PATTERN AT  $\phi$  SPAN**

STRAND LOCATION SEQUENCE SHALL  
BE AS SHOWN (1) , (2) ETC.



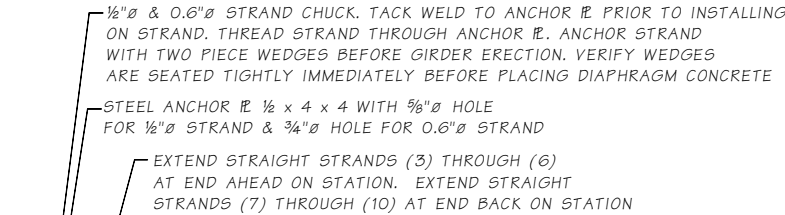
**GIRDER SCHEDULE**

DIMENSION "A" AT $\phi$ BEARINGS =										BASED ON GIRDER DEFLECTION = "D" AT TIME OF SLAB PLACEMENT (120 DAYS)													
SPAN	GIRDER	END 1 TYPE	END 2 TYPE	L	$\theta_1$	$\theta_2$	$P_1$	$P_2$	PLAN LENGTH (ALONG GIRDER GRADE)	MIN. CONC. COMPR. STRENGTH		HARPED		STRAIGHT		LOCATION OF C.G. STRANDS				C (IN.)	D @ 40 DAYS (IN.)	D @ 120 DAYS (IN.)	Ld (IN.)
										@ FINAL F'C KSI	@ RELEASE F'C KSI	NO. OF STRANDS	JACKING FORCE (KIPS)	NO. OF STRANDS	JACKING FORCE (KIPS)	E	F $\phi$	Fb	Fo				
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

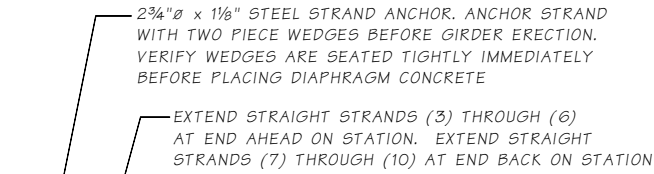


**SAWTOOTH DETAILS**

SAWTEETH ARE FULL WIDTH - USE SAWTOOTH KEYS  
FROM BOTTOM OF BOTTOM FLANGE TO BOTTOM OF  
LOWEST HARPED STRAND AS WELL AS TOP FLANGE  
ADJACENT TO HARPED STRANDS AS SHOWN IN  
VIEW B - W42G GIRDER DETAILS 1 OF 2



**ALTERNATE #1**



**ALTERNATE #2**

**STRAND EXTENSION DETAIL**

**NOTES TO DESIGNER:**

This strand extension detail is to be used for continuous spans at moment resisting diaphragms only. This detail is not applicable to continuous spans using hinge diaphragms. Designer shall calculate the exact number of extended straight strands needed to develop the required moment capacity at the end of the girder. This calculation shall be based on the tensile strength of the strands, the stresses imposed on the anchor, and concrete bearing against the projected area of the anchor.

2-6-A-3-2  
SR  
JOB NO.  
SHEET

Bridge Design Engr.	M:15TANDARDS\Girders\1-Girders\W42G\W42G2.man	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By		JOB NUMBER				
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APP'D		

Wed Aug 10 07:26:23 2005

BRIDGE  
AND  
STRUCTURES  
OFFICE

 **Washington State  
Department of Transportation**

**STANDARD  
PRESTRESSED CONCRETE GIRDERS**

W42G GIRDER  
DETAILS 2 OF 2

BRIDGE  
SHEET  
NO.  
  
SHEET  
  
OF  
  
SHEETS